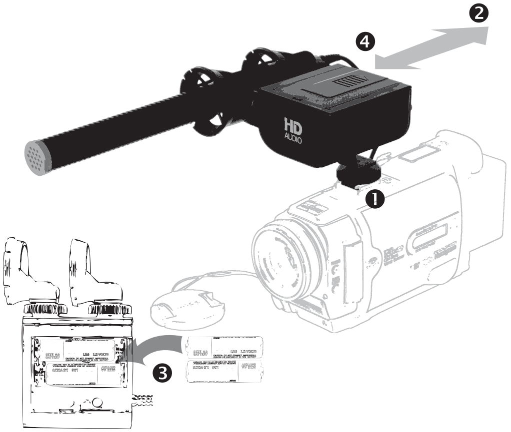
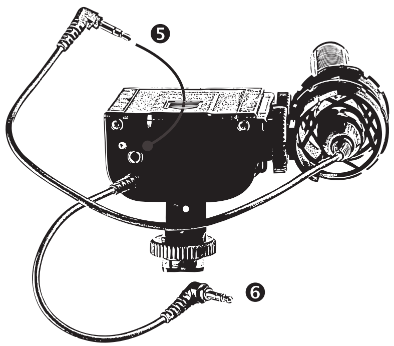
## Standard System Setup

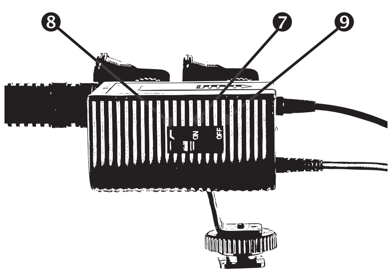
1. Put the battery box PS4 onto the camera's cold shoe
2. Slide to open battery compartment
3. Insert 4 x AA batteries, alkaline preferred




4. Slide the battery cover back to place.
5. Plug the microphone into the input of the power box.




6. Plug the output plug of the power box to the camcorder.
7. Slide the switch from OFF to ON. You are ready to roll.




8. In case there is wind noise in windy environment, slide the switch to low cut position
9. Turn off the unit when finish recording. Take out the batteries before store the unit for a longer period.

## LIMITED WARRANTY

Superlux Enterprise warrants all materials and workmanship under use as instructed by the user's manual of this product for a period of one year from the original date of purchase. Warranty period might be different by each area. Please contact your local dealer for more information. If any defects are found in the materials or workmanship or if the product fails to function properly during the applicable warranty period, Superlux Enterprise, at its option, will repair or replace the product. This warranty applies only to equipment sold and delivered by Superlux Enterprise's authorized distributors or dealers. However, the following are not covered:

Damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage resulting from failure to follow instructions contained in your Instruction manual; damage resulting from the performance of repairs by someone not authorized by Superlux; claims based upon any misrepresentations by the seller; any Superlux product on which the serial number has been defaced, modified or removed.

Service and repairs of Superlux products are to be performed only at a factory-authorized facility or authorized distributors or dealers. Unauthorized service, repairs, or modification will void this warranty. To obtain repairs under warranty, you must have a copy of your sales receipt from the authorized Superlux dealer where you purchased the product. It is necessary to establish purchase date and determine whether your Superlux product is within the warranty period. To obtain factory-authorized service, please contact authorized distributors, dealers or mail to sales@superlux.com.tw.

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manufacturing & logistics.

Superlux Enterprise
Development(Shanghai)Co., Ltd.

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Superlux®

# E421B

## Shotgun Microphone

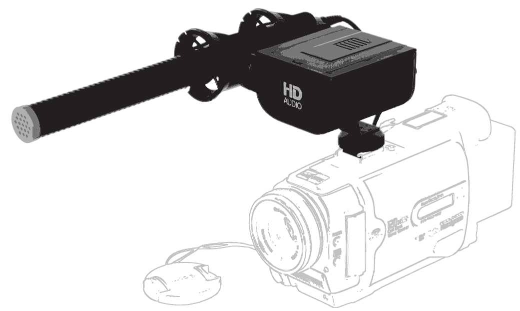
### Instruction Manual

DV camcorders
HDV camcorders
AVCHD camcorders
DAT audio recorders
MD audio recorders
Digital audio recorders

Highly Recommends for:

Sony HDR-FX1, FX1000...
Sony HDR-XR520V...
Canon EOS-5D MK2
Canon HG21, HF20...
JVC GR-HD6...
Panasonic HDC-HS100...
Edirol R-09HR
Zoom H2
Tascam DR-1, DR-07
Sony PCM-D50,PCM-M10
Olympus LS-10, LS-11
Marantz PMD-620
Yamaha Pocketrak...

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## Plug-in Power System Setup

1. Plug microphone output (not battery box needed) directly to the recording device with "plug-in power" microphone input.
2. Some of the recording devices incorporates power control for plug-in power. Some by software control, and some with hardware switch. Please make sure the plug-in power is turn on.



## The E421B is a shotgun microphone system that comprises with:

- E421, the shotgun microphone
- PS4 The battery base box with shock mount for microphone, and a cold shoe for mounting onto camcorder
- FD0.3WW 0.3M cable (Attached to E421)
- FD5WW 5M long cable
- S32 wind screen foam




*E421B shown with S32 wind screen*

## Features

- Professional grade acoustic interference tube, shotgun microphone
- High sensitivity condenser capsule
- Rugged ABS construction
- Integrated and adjustable shock mount to reduce handling noise
- Integral camera cold shoe mount
- 2 parts design, allow microphone connect directly to "plug-in power" recording devices
- Supplied additional 5M cable for boom pole mount
- 4 x AA batteries for easier field replacement
- Low cut filter
- Red cap for attracting people speak into

## Microphone Skill:

- Get the microphone as close to your subject as possible. A boom is specially helpful for video shooting.
- Always use a shock mount to reduce handling noise.
- Be careful of the wind: Outdoor, indoor air-con, fans...
- Always use a headphone or proper monitoring tool while recording. People don't close their eyes while shooting video, nor should they not to hear what sound is recorded. Superlux provides extensive line of high performance headphones, please check back at the web site: superlux.tw
- For lower cost boom pole, Superlux will supply an adapter bolt to convert landing net pole (from fishing hobby store) for mounting a microphone with standard 3/8" thread.
- Superlux plan to supply easy boom pole in the near future, please check back our web site.

## Standard system setup:

The microphone is powered by the battery box. Which provides power as well as a low cut filter for lowering wind noise in windy condition. When there is no power from the recording device, or the device doesn't provide low cut filter to lower wind noise, you can always use the battery box of E421B system to power the microphone and cut out the low frequency noise.

## Specifications

| | |
|---|---|
| Type | Electret condenser |
| Acoustic | Interference Tube |
| Polar Pattern | Super-cardioid |
| Frequency Response | 20～20,000Hz |
| Sensitivity (ref. 1Pa or 94dB SPL) | -34 dBV/Pa |
| Output Impedance | 200Ω |
| Minimum Load Impedance | 1KΩ |
| Equivalent Noise Level | 20dB |
| Max SPL (THD≤0.5%) | 134dB |
| Dynamic Range | 114dB |
| Signal to Noise Ratio | 74dB |
| Power | |
| Battery | 6 Vdc, 4x AA size batteries |
| Current Drain | 6.7 mA |
| Pin Configuration | Tip and Ring: Signal<br>Sleeve: Ground |
| Environmental conditions | From -10 °C to +50°C (14°F to 122°F ) with relative humidity between 0 to 95% |
| Cables | |
| Short cable | FD0.3WW 30cm (1 ft.) |
| Long cable | FD5WW 5 m (16.4 ft.) |
| Material, conductors, and connectors | Vinyl-jacketed, shielded, 2-conductor with 3.5mm(1/l8") mini stereo connector on both ends. |
| Dimensions | Ref. to illustration at right |
| Net weight | |
| microphone | 30 grams (1.06 oz.) |
| Battery box | 140 grams (4.93 oz.) |

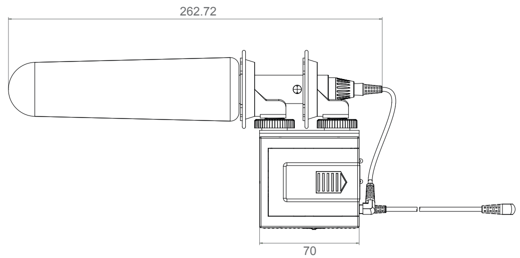
## Plug-in power system setup:

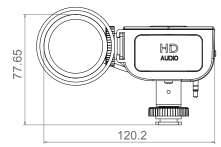
The microphone is powered by the recording device. There is no low cut filter at the microphone, but you may find this filter in the recording device. Refer to the manual of your recording device.

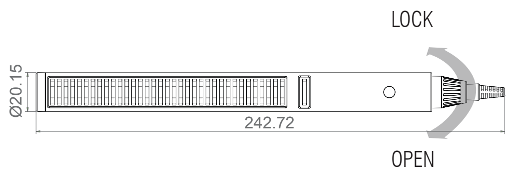
In this way, you don't have to prepare batteries for E421B, and can focus on your recording device.

However, you still need the suspension on the battery box, or you shall incorporate another shock mount such as Superlux HM40.

In the illustration over-left page, a boom pole was shown with E421 suspended with Superlux HM40 shock mount. The microphone is connected directly to the recording device which is a DV camcorder with plug-in power. A monitoring headphone was also shown.



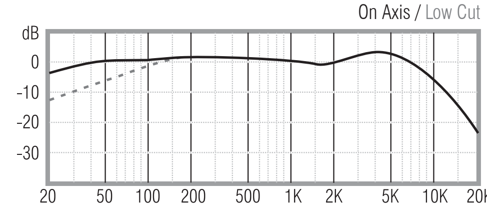




## To Change the Microphone Cable:

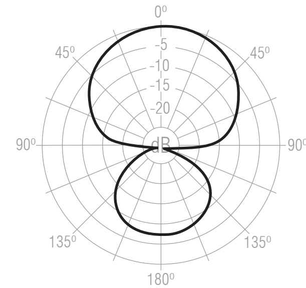
E421B system supplied with a 5M long cable for remote microphone stand mount or boom pole mount. To change the microphone cable, simply un-screw the red cap at the end of the microphone, and detach the cable from the mic.

Replace the cable, and screw the red cap back in place. And you're ready to go further with your microphone.

## Frequency Response




## Polar Chart




## Camcorder with 3.5mm Mic input

Except recent model with "Intelligent Shoe Mount" and at lower price, most older model do incorporating a 3.5mm microphone input jack.

*Sony*

HDR-FX1000, HDR-FX1, HDR-FX7, HDR-UX7, HDR-HC1, HC3, HC5
HDR-XR500V, HDR-XR520V
DCR-TRV30, DCR-TRV330, DCR-TRV900, DCR-VX1000, DCR-VX2000, DCR-VX2100,
HDR-SR1, SR7, SR8, SR10, SR11, SR12

*Canon*

EOS-5D MK2
Vixia HG10, HR10, HF S10, HF S100, HF20, HF100, HF200, HF10, HF20, HG21, HV30, HV40, FS21, FS200, DC410, ZR960

*JVC*

GR-HD1, GZ-HD10US, GZ-HD30US, GZ-HD40US, GZ-HD5, GZ-HD6, GZ-HD7

*PANASONIC*

HDC-HS100, HDC-SD100, HDC-TM300K, HDC-HS300K, VDR-D310